

## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/040,850	01/09/2002	Timothy P. Bender	D/A0A52	3276
75	90 04/28/2003			
Patent Docum	entation Center		EXAMI	NER
Xerox Corporation			TRUONG, DUC	
Xerox Square, 2				<u> </u>
100 Clinton Av			ART UNIT	PAPER NUMBER
Rochester, NY	14644		1711	
			DATE MAILED: 04/28/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Applicant(s)    Applicant(s)   BENDER ET AL.
Duc Truong 1711  The MAILING DATE of this communication appears on the cover sh et with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CPR 1.136(a). In no event, however, may a reply be timely filed after SIX (5) MONTHS from the mailing date of this communication.  - If the period for reply sepecified above it is ess than thing (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above it is ess than third (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above it is ess than third (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above it is ess than third (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above it is ess than third (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above it is ess than third (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above it is essentially and will explication to become ABANDONED (35 U.S. c. § 132).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any explication to reply minimum of thirty (30) days are reply within the statutory minimum of thirty (30) days will be considered timely.  - This action is FINAL.  - Specification is in condition for all of the statutory minimum of thirty (30) days are reply within the statutory minimum of thirty (30) days are reply within the statutory minimum of thirty (30) days ar
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Applicant may not request that any objection to the drawing(s) be neighboreance. See 37 GFR 1 85(8)
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
12) The oath or declaration is objected to by the Examiner.
Priority under 35 U.S.C. §§ 119 and 120
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.
Attachment(s)
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2. 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:

Application/Control Number: 10/040,850

Art Unit: 1711

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-22 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Chem Abstract 137: 233008.

The reference discloses the lab.-scale optimization and pilot plant scale synthesis of a poly(arylene ether ketone) in that the polymer produced has the desired properties of low MW and the polydispersity of 2.37-2.39, and well defined controlled end groups, using a one step solution polymerization of 4,4'-difluorobenzophenone, bisphenol A, and 4-tert-butylphenol.

Note that the amount of tBP can be varied as desired to get the ter-butylphenol terminus, and the variation of the ratio of DFBP to BPA controls the MW of the obtained

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polymer, and the replacement of DFBP with dichlorobenzophenone as a cost-saving measure, the effect of temperature, and the effect of the concentration of the reactants.

The disclosure of the reference differs from the instant claims in that it does not disclose the general formula of claim 1 with so many variations. However, it does disclose specific reactants under the same conditions to form the same or similar products. In view of this similarity, it would appear to be inherent that a product of the claimed formula could be prepared following the teachings of the reference. See In re Best, 195 USPQ 430, 433 (CCPA 1977).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Truong whose telephone number is 703-308-2437. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 703-308-2462. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9791 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

DT April 23, 2003

DUCTRUONG PRIMARY EXAMINER

J Rus M